

Work Order ID 80817

Wednesday, February 29, 2012 3:32:22 PM

80817

Ship Eagle Mark 12-1
Page 1

Item ID: D412-702-021

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 2/29/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 3/12/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: *MC*Date: *2-02-29*

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

N/A

Rev N/A

100

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D412-702-021 CHG003

8/2/03/02

H for MBS 12-3-1
(1)

110

0.00

110

Pick Kit

Packaging

Memo

0.00

Packaging

12/3/12 *SP*

120

0.00

120

QC4- 100% Inspect kits for completeness

QC

Memo

0.00

Quality Control

*8/2/03/02**AC*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Page 2

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Required Date: 3/12/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursTool ID Tool # Plan Accept Reject Reject Insp.
Code Qty Qty Number Stamp

130

0.00

130

Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D412-702-021

Location: *032**NEVC*

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.00

Quality Control

*12/3/20**12/3/6**MF 1203-06-*

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Picklist Print

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Work Order ID: 80817

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 2/29/2012

Required Date: 3/12/2012

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:B Removed Manufacturing 05-11-08 JLM
 IPP Rev:C06.04.03As per DSI9324 JLM
 IPP rev D 06.12.14 per ecn 871 EC
 IPP Rev:E 07-03-14 As per DSI 9351 JLM
 IPP Rev:F 07-07-28 As per Rev E JLM Verified By:ec IPP Rev.G 11.05.31 DSI
 9559 EC verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4-13A Bolt		Purchased	No			120	Each	1,633.0000	4	4			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST357		1633							
				119449		59							
				120187		674							
				120422		500							
				120770		400							
AN4-20A Bolt		Purchased	No			120	Each	462.0000	8	8			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				GA		50							
				116419		50							
				ST359		412							
				117514		112							
				118983		100							
				119127		200							
AN4-5A Bolt		Purchased	No			120	Each	1,042.0000	4	4			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST355		1042							
				116549		6							
				117508		36							
				120562		1000							

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 2/29/2012

Required Date: 3/12/2012

Start Qty: 1.00

Required Qty: 1.00

AN960JD416

NAS1149D0463J

Purchased

No

120 Each 8.0000

20 ³⁸ 20

Washer

Location

Loc Qty

Loc Code

ST351

8

116289

8

D3195-041

Manufactured

No

120 Each 8.0000

2 2

Bracket Assembly

Location

Loc Qty

Loc Code

ST246A

8

76207

8

D3195-043

Manufactured

No

120 Each 9.0000

2 2

Bracket Assembly

Location

Loc Qty

Loc Code

ST246A

9

76210

9

D3196-1

Manufactured

No

120 Each 3.0000

1 1

Bar

Location

Loc Qty

Loc Code

ST260

3

79094

3

D3196-3

Manufactured

No

120 Each 0.0000

1 1

Bar

D3196-4

Manufactured

No

120 Each 1.0000

1

Bar

Location

Loc Qty

Loc Code

ST260

1

79108

1

D3197-041

Manufactured

No

120 Each 2.0000

2 2

Bar Assembly

Location

Loc Qty

Loc Code

ST260

2

78918

2

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Shop Packet Print

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W/O:		WORK ORDER CHANGES					
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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Work Order ID: 80817

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 2/29/2012

Required Date: 3/12/2012

Start Qty: 1.00

Required Qty: 1.00

D3198-1
Fitting

Manufactured No

120 Each 8.0000

4 4

Location

Loc Qty

Loc Code

ST246A

8

79155

8

D3268-1
Placard

Manufactured No

120 Each 6.0000

2 2

Location

Loc Qty

Loc Code

ST246A

6

76058

6

D3546-1
Clip

Manufactured No

120 Each 12.0000

2 2

Location

Loc Qty

Loc Code

ST245

12

73444

12

D3551-11
Hook and Loop Tie

Manufactured No

120 Each 27.0000

13 13

Location

Loc Qty

Loc Code

ST246A

27

80182

27

D412-702-069
Grommet

Manufactured No

120 Each 4.0000

1 1

Location

Loc Qty

Loc Code

FG125

4

79506

4

D4387-041
Harness Assembly

Manufactured No

120 Each 20.0000

9 9

Location

Loc Qty

Loc Code

quar

5

72273

5

ST263

15

77953

15

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 2/29/2012

Required Date: 3/12/2012

Start Qty: 1.00

Required Qty: 1.00

D4387-043
Harness Assembly

Manufactured No

120 Each 4.0000 4 4

Location

Loc Qty

Loc Code

ST263

4

78160

4

MS21042L4
Nat

Purchased No

120 Each 4,398.0000 12 12

Location

Loc Qty

Loc Code

ST300

4398

117441

59

117601

157

118451

133

119017

200

119075

3849

MS24694-S152
Screw

Purchased No

120 Each 51.0000 8 8

Location

Loc Qty

Loc Code

ST290

51

116440

1

119108

30

120731

20

MS24694-S154
SCREW

Purchased No

120 Each 45.0000 8 8

Location

Loc Qty

Loc Code

ST289A

25

120498

25

ST290

20

119022

20

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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QTY -021	QTY -023	QTY -025	QTY -027	QTY -029	QTY -035	Part Number	Description
X						D412-702-021	Dart 13-Man Shoulder Harness Kit, 4-point
	X					D412-702-023	Dart 5-Man Forward Facing Shoulder Harness Kit, 4-point
		X				D412-702-025	Dart 4-Man Aft Facing Shoulder Harness Kit, 4-point
			X			D412-702-027	Dart 4-Man Side Facing Shoulder Harness Kit, 4-point
				X		D412-702-029	Dart 1-Man Forward Facing Shoulder Harness Kit, 4-point
					X	D214-702-035	Dart 5-Man Aft Facing Shoulder Harness Kit, 4-point, for Bell 214B/B-1
1	1		1	1		D412-702-069	GROMMET KIT
2	2					D3195-041	BRACKET
2	2					D3195-043	BRACKET
1	1			1		D3196-1	BAR
1			1			D3196-3	BAR
1			1			D3196-4	BAR
2	2					D3197-041	BAR
4		4				D3198-1	FITTING
2	2					D3268-1	PLACARD
9	5		4	1		D3446-041	HARNESS ASSEMBLY, 4 POINT
4		4				D3446-043	HARNESS ASSEMBLY, 4 POINT
					5	D3446-045	HARNESS ASSEMBLY, 4 POINT
13	5	4	4	1	5	D3551-11	HOOK AND LOOP TIE
2	2					D3546-1	CLIP
4		4				AN4-5A	BOLT
4	4					AN4-13A	BOLT
8		8				AN4-20A	BOLT
20		20				AN960JD416	WASHER (OR NAS1149D0463J)
12		12				MS21042L4	NUT (OR MS21042-4)
8	2		6	2		MS24694-S152	SCREW
8	2		6	2		MS24694-S154	SCREW

QTY -069	Part Number	Description
X	D412-702-069	GROMMET KIT
24	D3619-2	GROMMET
1	D3619-2T1	HOLE PUNCH
1	D3619-2T2	STRIKER BLOCK
1	D3619-2T3	PUNCH
1	D3619-2T4	DIE

DART SERVICE INSTRUCTION

TO AMEND IIN-D412-702-1 REV. A,
AND ICA-D412-702 REV. 4 OR EARLIER APPROVED REVISIONS

REF. TCCA STC: SH04-7
REF. FAA STC: SR01997NY
REF. EASA STC: EASA.IM.R.S.00710

REFERENCE ONLY

PURPOSE

The purpose of this DSI is to outline the replacement of existing D3446-041/-043 Shoulder Harnesses with the new and improved D4387-041/-043 Shoulder Harnesses.

CHANGE

For the following Kits, the D4387-041 and D4387-043 Shoulder Harnesses respectively replace the D3446-041 and D3446-043 Shoulder Harnesses as follows:

Old Harness P/N	Used On	New Harness P/N	Effectivity
D3446-041	D412-702-021	D4387-041	CHG 003 and subsequent
	D412-702-023		CHG 002 and subsequent
	D412-702-027		CHG 002 and subsequent
	D412-702-029		CHG 002 and subsequent
D3446-043	D412-702-021	D4387-043	CHG 003 and subsequent
	D412-702-025		CHG 002 and subsequent






Customers who want to upgrade their shoulder harnesses may replace their existing D3446-041/-043 with D4387-041/-043 per this service instruction.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 11.05.09
CERT. NO.: SH04-7
ISSUE NO.: 3

A	NEW ISSUE	MB	11.05.09
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9559	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		HARNESS CHANGE	NTS
DATE	11.05.09	COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	